

**Digital Photo Printer
CHC-S6245-5A
Printer Driver Ver.2
Instruction Manual**

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Using your printer with Windows computers

The supplied CHC-S6245-5A printer driver enables you to print an image stored on your computer with the CHC-S6245-5A digital photo printer. To print an image from the computer, you need appropriate application software that can open the image and print with the printer.

Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation. In this instruction manual, Microsoft(R) Windows(R) operating system are written as follows:

| Abbreviated name | Registered trademarks of Microsoft Corporation |
|------------------|--|
| Windows XP | Microsoft(R) Windows(R) XP |
| Windows Vista | Microsoft(R) Windows Vista(R) |
| Windows 7 | Microsoft(R) Windows(R) 7 |

System requirements

To use the supplied printer driver, you need a computer that meets the following system requirements:

OS: Windows XP Home Edition SP3 / Windows XP Professional SP3 (32 bit)
Windows Vista SP1 (32bit)
Windows 7 (32bit / 64bit)

CPU: Pentium 300 MHz or better (Windows XP Home Edition / Windows XP Professional)
x86 processor 1 GHz or better (Windows Vista / Windows 7)
x64 processor 1 GHz or better (Windows 7 64bit)

RAM: 128 MB or more (Windows XP Home Edition / Windows XP Professional)
512 MB or more (Windows Vista Home Basic)
1 GB or more (Windows Vista Home Premium / Business / Ultimate / Windows 7)

Disk free space: 1.5 GB or more (Windows XP Home Edition / Windows XP Professional)
15 GB or more (Windows Vista)
16 GB or more (Windows 7)

Port: A built-in USB port on the personal computer.

CD-ROM drive: For software installation.

Notes

- (1) Be sure to connect the printer directly to your computer. Connecting it via a USB hub may cause the printer to not operate properly.
- (2) Do not use the printer together with other USB devices except a USB keyboard or mouse.
- (3) Do not connect two or more CHC-S6245-5A digital photo printers at the same time.
- (4) Do not unplug the USB cable during data transferring or printing. To do so may cause the printer to not operate properly.
- (5) The printer driver cannot be used for network printer.
- (6) Due to over print spool size restriction for Windows (example, Windows XP: 4 GB), printing will be stopped. Please delete the print jobs, and re-print after divide the print jobs into several groups.
- (7) Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation.
- (8) Other names and products not mentioned above may be registered trademarks or trademarks of their respective companies.
- (9) If you have any questions or problems please contact chc-master@tokyo.shinko-elec.co.jp

Installing the printer driver for Windows 7

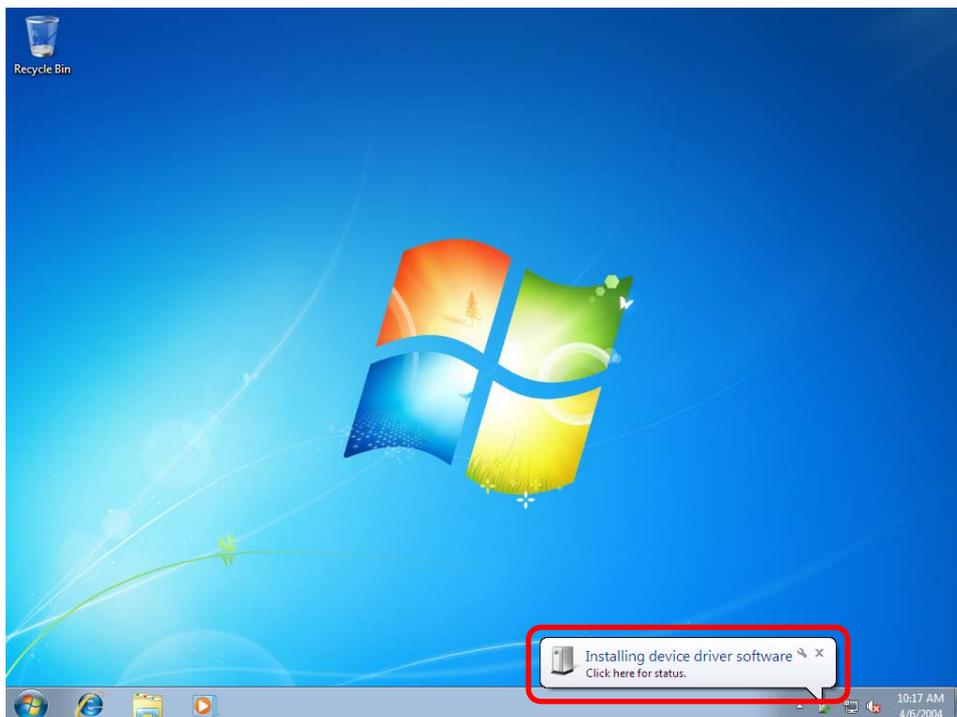
NOTES

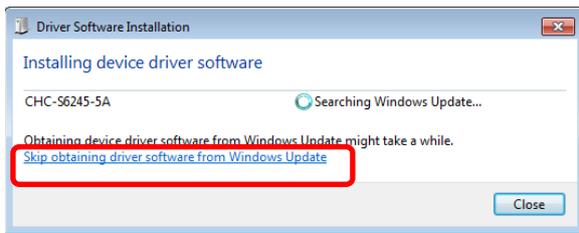
(1) The explanations in this section are based on Windows 7 Home Premium. On another edition of Windows 7, the actual screen contents and procedures may vary from those shown.

(2) You need to uninstall before installing the latest printer driver, if a previous version printer driver is installed on your system.

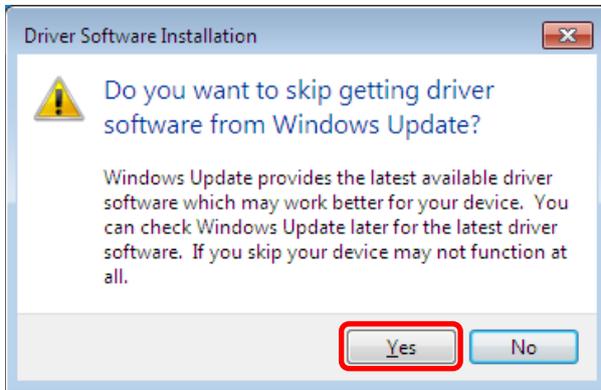
1. Make sure that the printer is turned off and not connected to the computer.
2. Turn on your computer to start the Windows.
 - Be sure to log on Windows as “Administrator”
 - Be sure to turn off any virus protection programs and to close other running programs before installing the driver.
3. Turn the printer on.
4. Connect the printer to your computer, using the USB cable.

When connection is established, the following balloon tip appears automatically on the taskbar. Click the balloon tip.

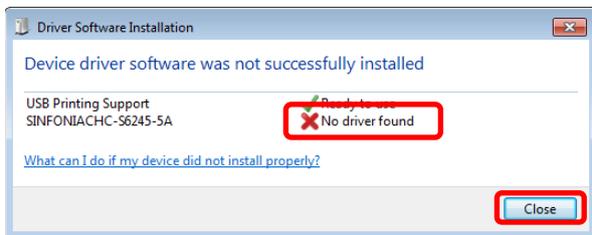




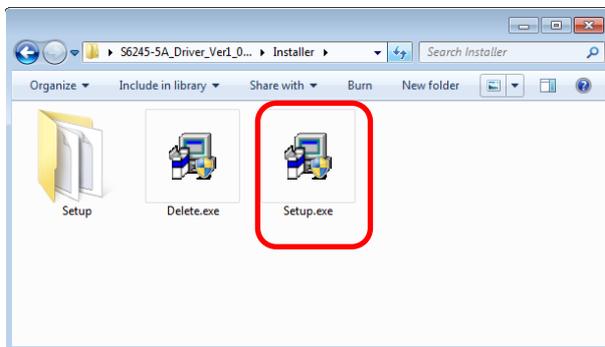
5. Click "Skip obtaining driver software from Windows Update".



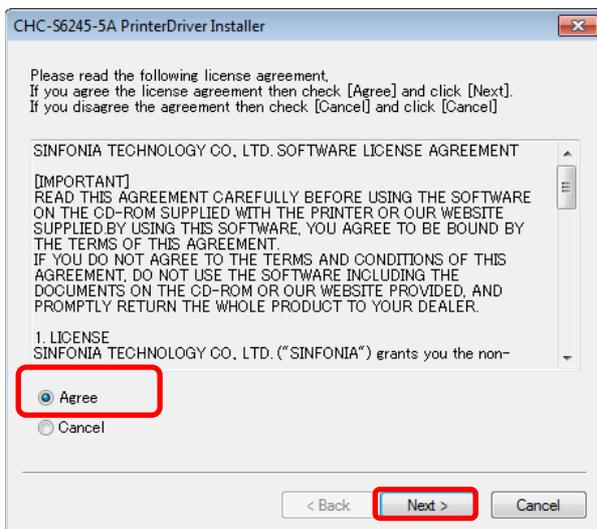
6. Click "Yes".



7. Wait until the “No driver found” appears on the right of “SINFONIA\CHC-S6245-5A”, and then click “Close”.



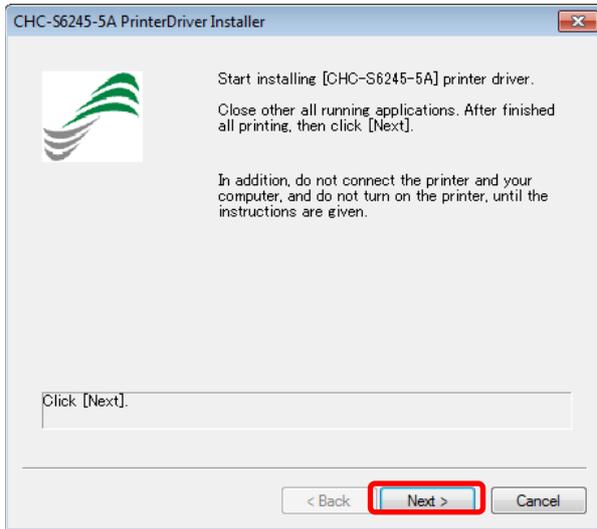
8. Open “Installer” folder, and then double-click “Setup.exe” icon.



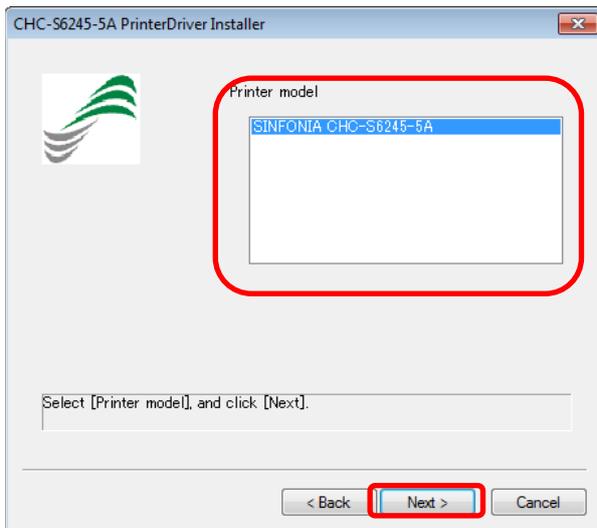
9. Please read the license agreement.

If you agree the license agreement then check “Agree” and click “Next”.

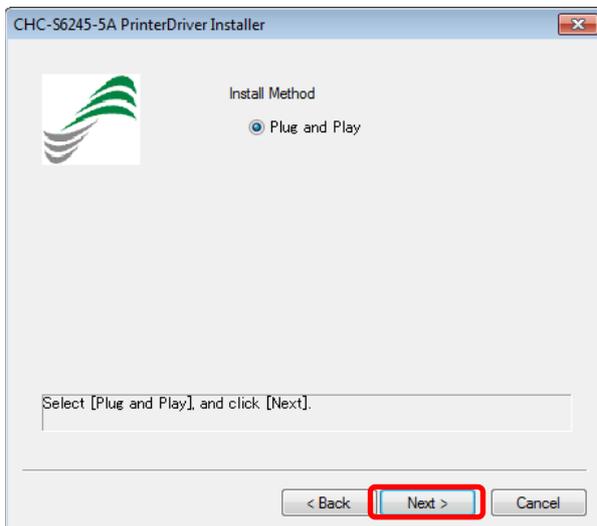
If you disagree the agreement then check “Cancel” and click “Cancel”.



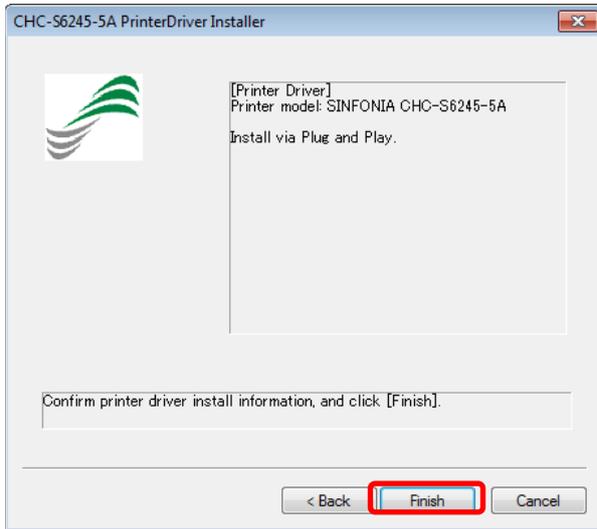
10. Close other all running applications. After finished all printing, then click “Next”.



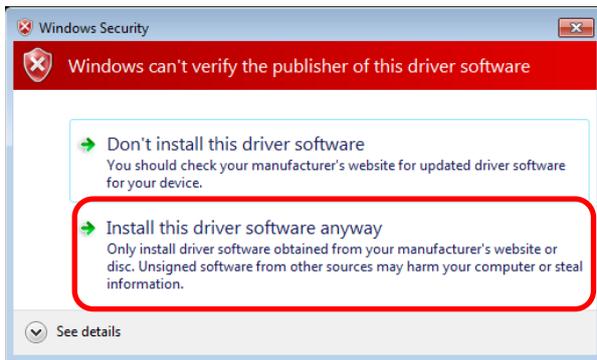
11. Select printer model, and click “Next”.



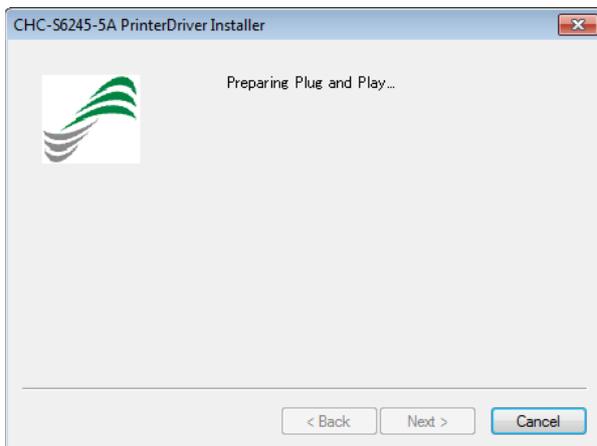
12. Select “Plug and Play”, and click “Next”.



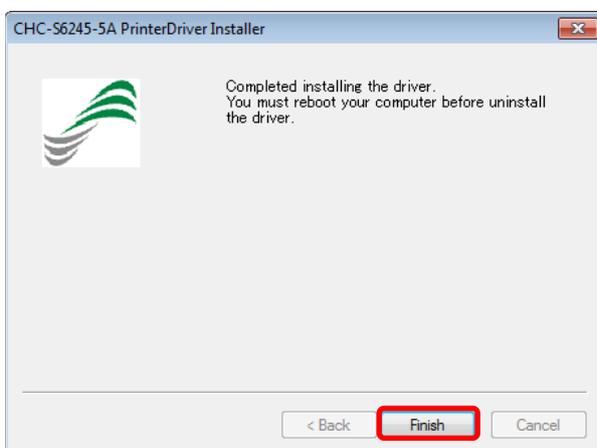
13. Click "Finish".



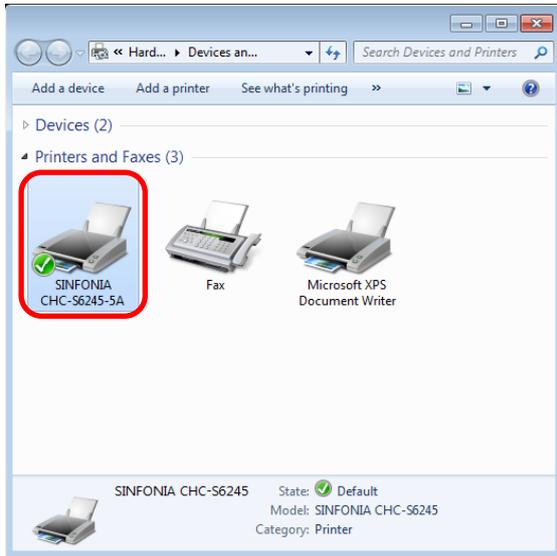
14. Click "Install this driver software anyway".



15. Installing the driver. Please wait a minute.



16. Click "Finish".

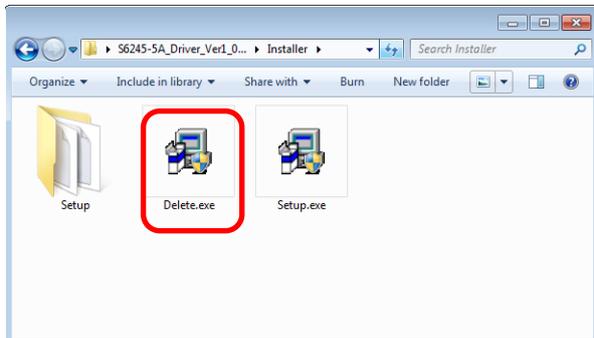


17. The "SINFONIA CHC-S6245-5A" printer icon appears in the "Devices and Printers" window.

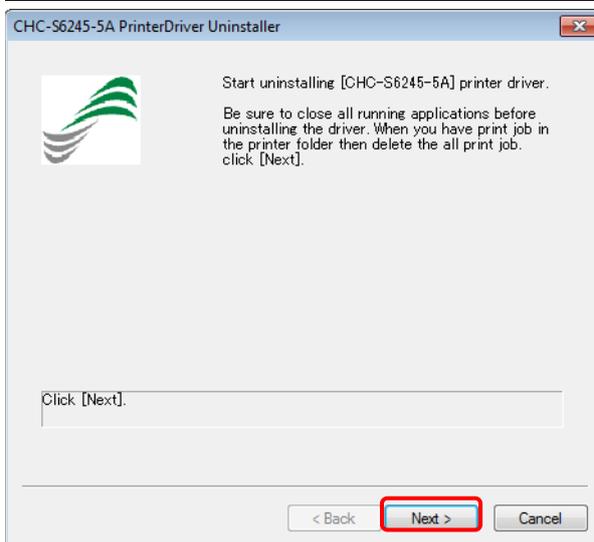
Uninstalling the printer driver for Windows 7

To uninstall the printer driver, follow the procedures below.

1. Unplug the USB cable from your computer.



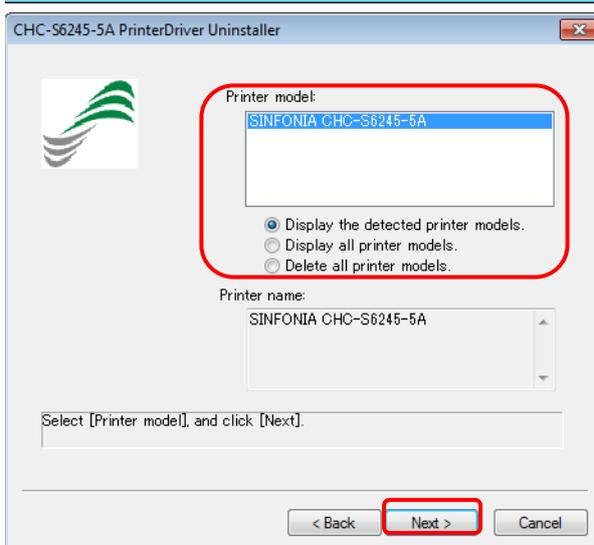
1. Open "Installer" folder, and then double-click "Delete.exe" icon.



2. Close all running applications.

When you have print job in the printer folder then delete the all print job.

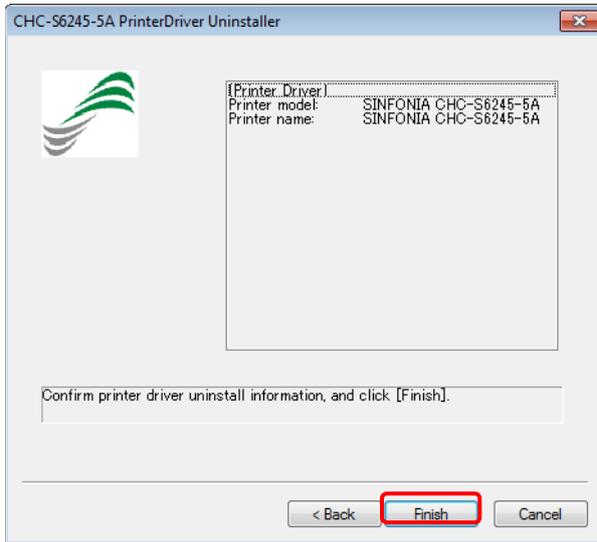
Click "Next."



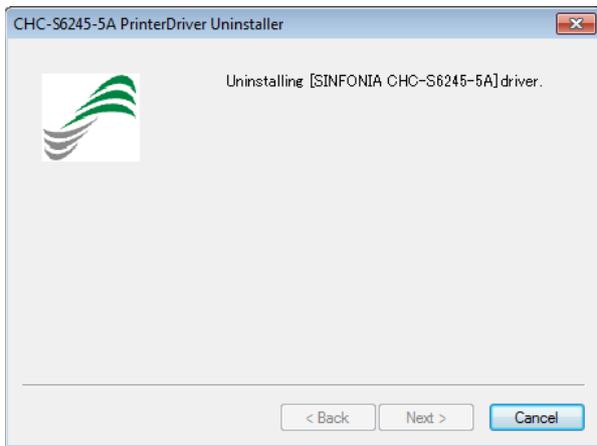
3. Select "Display the detected printer models" radio button, and select Printer model, and click "Next."

NOTES

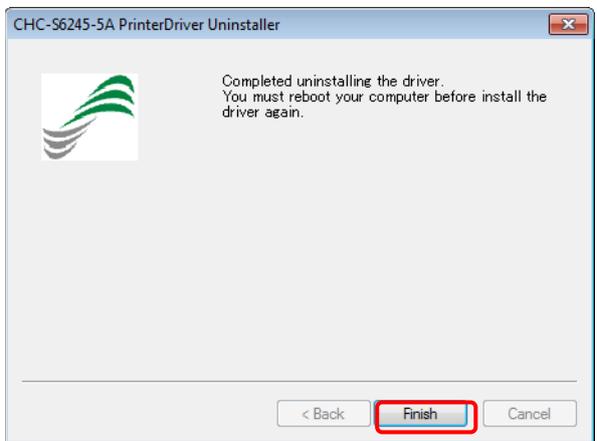
- "Display the detected printer models"
Display the installed printer driver in Windows.
- "Display all printer models"
Display the all printer models in the installer.
- "Delete all printer models"
Delete the all printer models in the installer.



4. Click "Finish."



5. Uninstalling the driver. Please wait a minute.



6. Click "Finish."

7. Reboot your computer.

Installing the printer driver for Windows XP

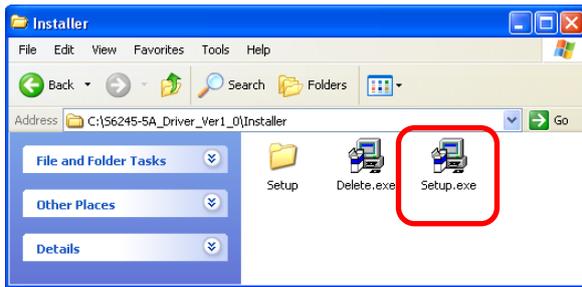
NOTES

- (1) Make sure that the printer is not connected to the computer.
- (2) The explanations in this section are based on Windows XP. On another version of Windows, the actual screen contents and procedures may vary from those shown.
- (3) You need to uninstall before installing the latest printer driver, if a previous version printer driver is installed on your system.

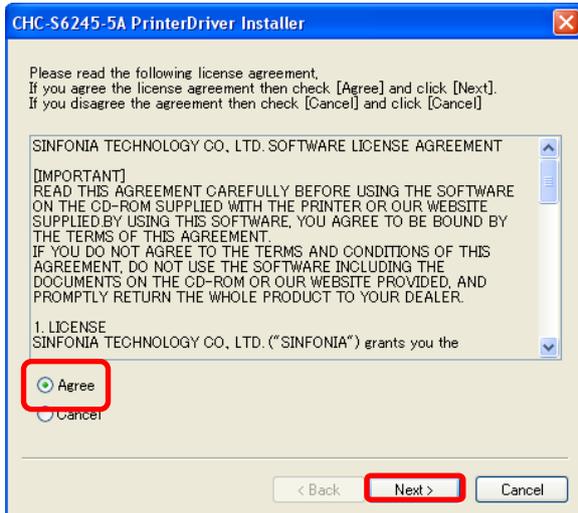
1. Turn on your computer and start Windows.
2. Be sure to log on with “Administrator” privileges.
3. Be sure to close all running programs before installing the software.
4. Turn the printer on.
5. Connect the printer to your computer, using the USB cable.

When connection is established, the following window appears automatically on a computer screen. Then, click “Cancel”.





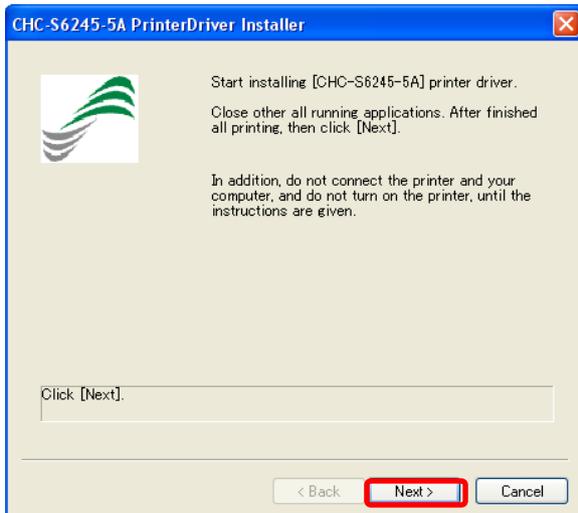
6. Open "Installer" folder, and then double-click "Setup.exe" icon.



7. Please read the license agreement.

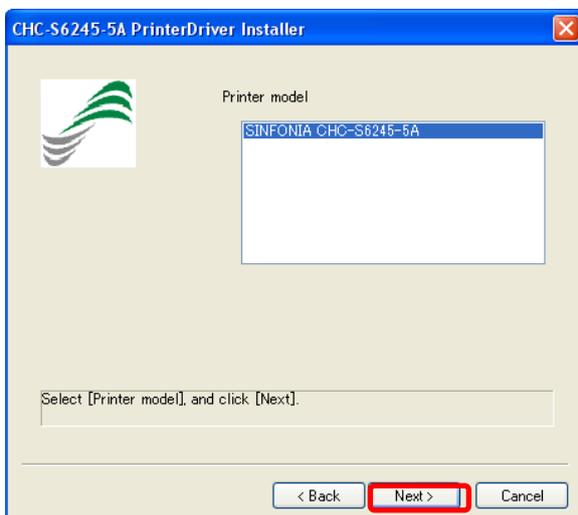
If you agree the license agreement then check "Agree" and click "Next".

If you disagree the agreement then check "Cancel" and click "Cancel".

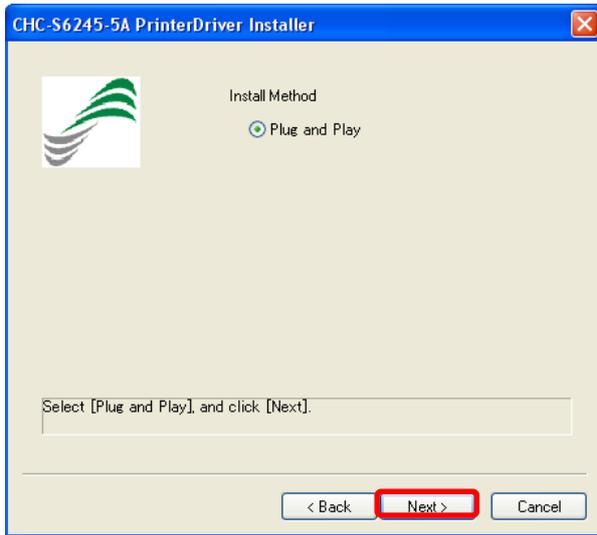


8. Close other all running applications.

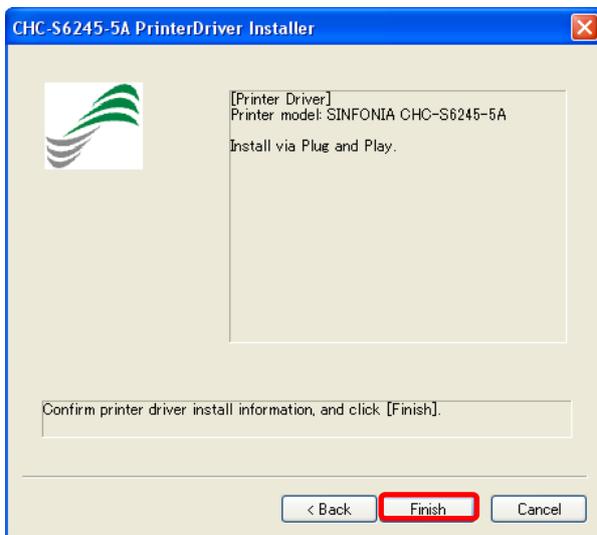
After finished all printing then click "Next".



9. Select printer model, and click "Next".



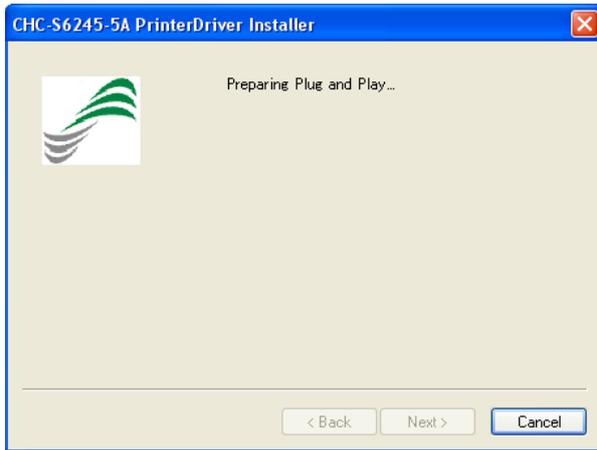
10. Select “Plug and Play”, and click “Next”.



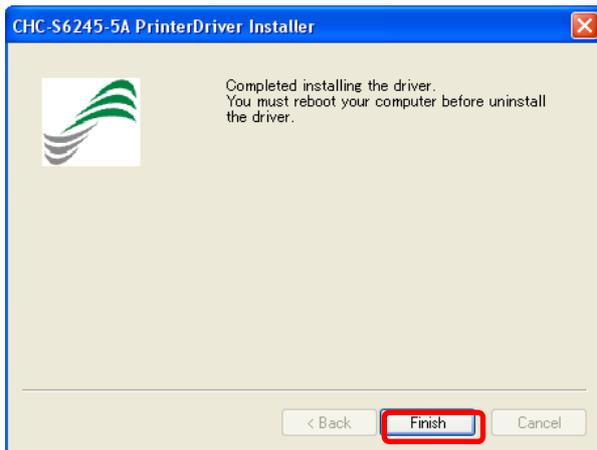
11. Click “Finish”.



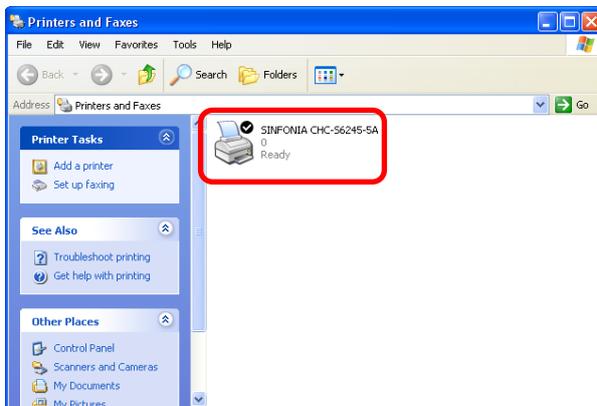
12. Click “Continue Anyway”.



13. Installing the driver. Please wait a minute.



14. Click "Finish".

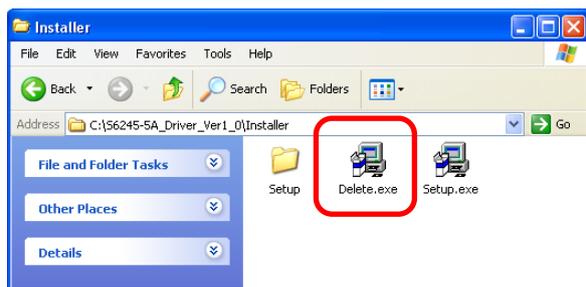


15. The "SINFONIA CHC-S6245-5A" printer icon appears in the "Printers and Faxes" window.

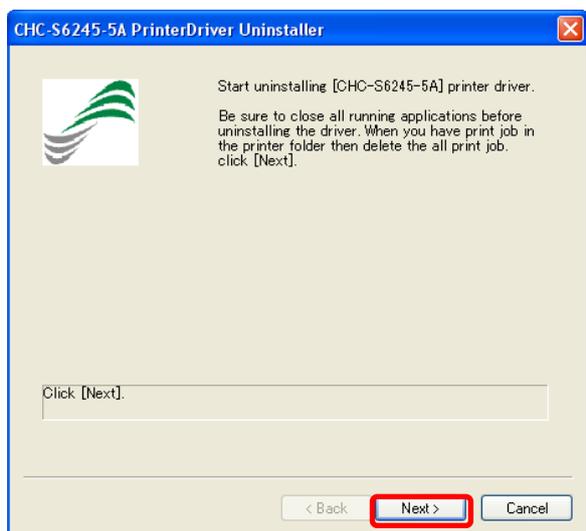
Uninstalling the printer driver for Windows XP

To uninstall the printer driver, follow the procedures below.

1. Unplug the USB cable from your computer.
2. Select "Printers and Faxes" from the Windows Start menu.



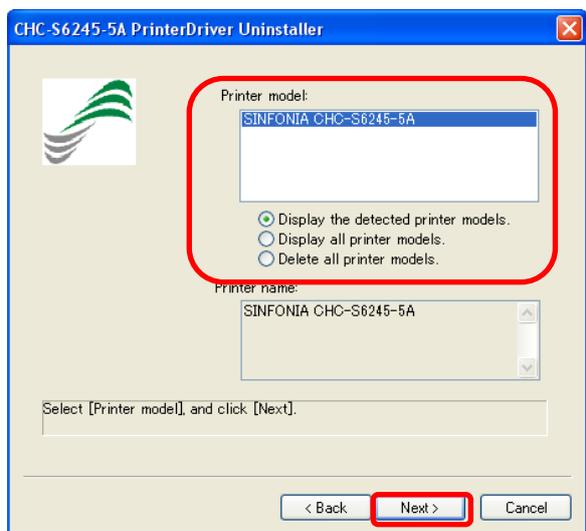
3. Open "Installer" folder, and then double-click "Delete.exe" icon.



4. Close all running applications.

When you have print job in the printer folder then delete the all print job.

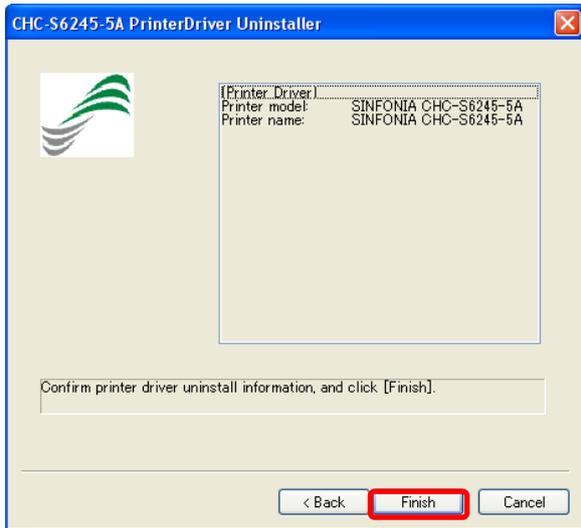
Click "Next".



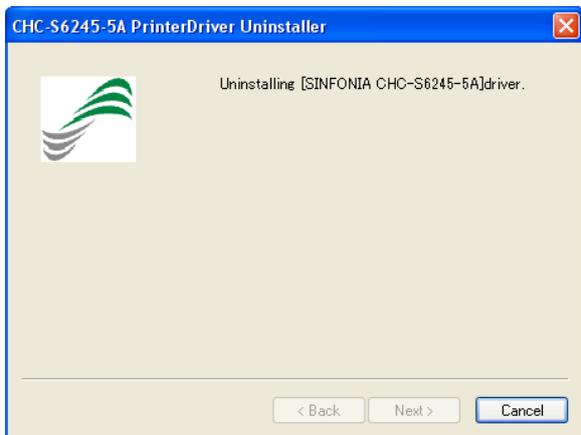
5. Select "Display the detected printer models" radio button, and select Printer model, and click "Next."

NOTES

- "Display the detected printer models" Display the installed printer driver in Windows.
- "Display all printer models" Display the all printer models in the installer.
- "Delete all printer models" Delete the all printer models in the installer.



6. Click "Finish".



7. Uninstalling the driver. Please wait a minute.



8. Click "Finish".

9. Reboot your computer.

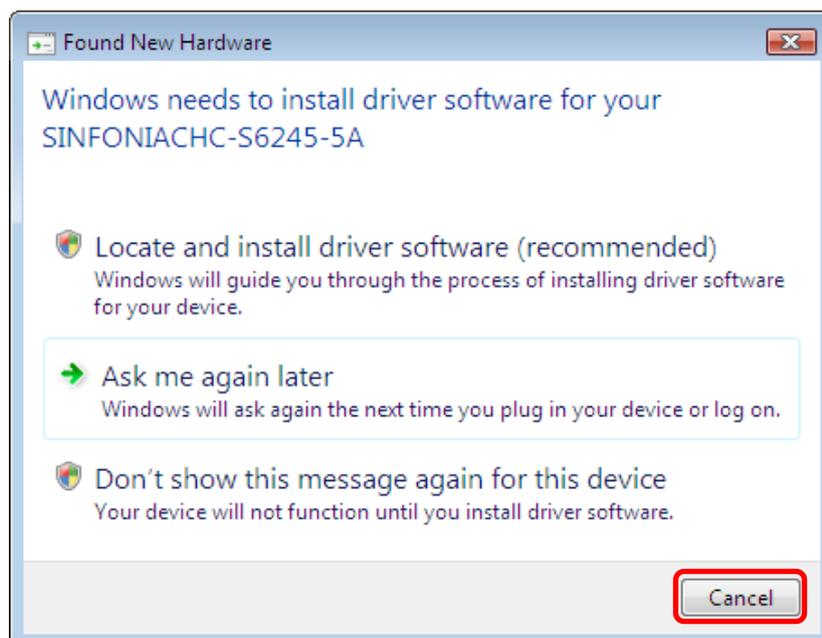
Installing the printer driver for Windows Vista

NOTES

- (1) The explanations in this section are based on Windows Vista Business. On another edition of Windows Vista, the actual screen contents and procedures may vary from those shown.
- (2) You need to uninstall before installing the latest printer driver, if a previous version printer driver is installed on your system.

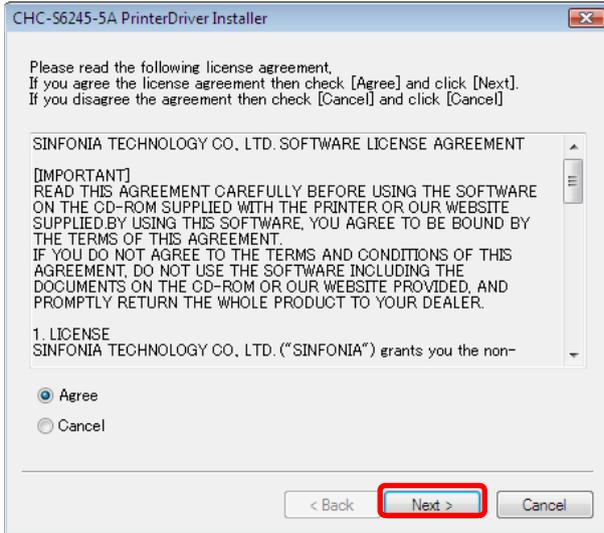
1. Make sure that the printer is turned off and not connected to the computer.
2. Turn on your computer to start the Windows.
 - Be sure to log on Windows as “Administrator”
 - Be sure to turn off any virus protection programs and to close other running programs before installing the driver.
3. Turn the printer on.
4. Connect the printer to your computer, using the USB cable.

When connection is established, the following window appears automatically on a computer screen. Then, click “Cancel”.





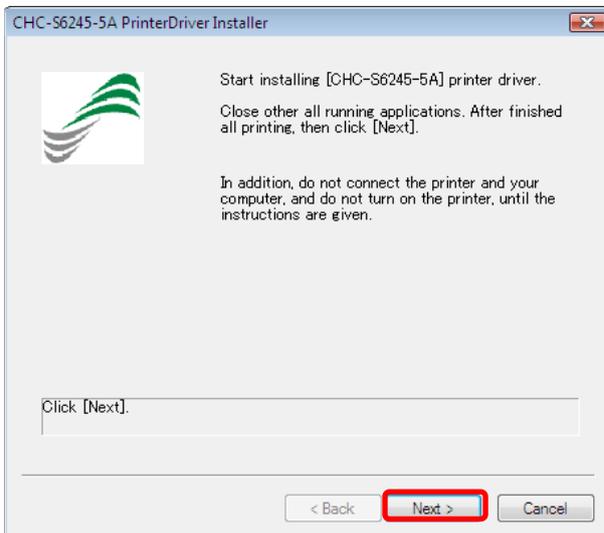
5. Open “Installer” folder, and then double-click “Setup.exe” icon.



6. Please read the license agreement.

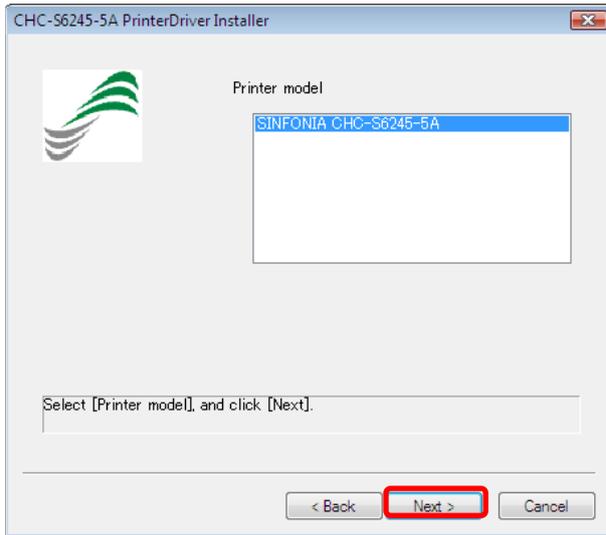
If you agree the license agreement then check “Agree” and click “Next”.

If you disagree the agreement then check “Cancel” and click “Cancel”.

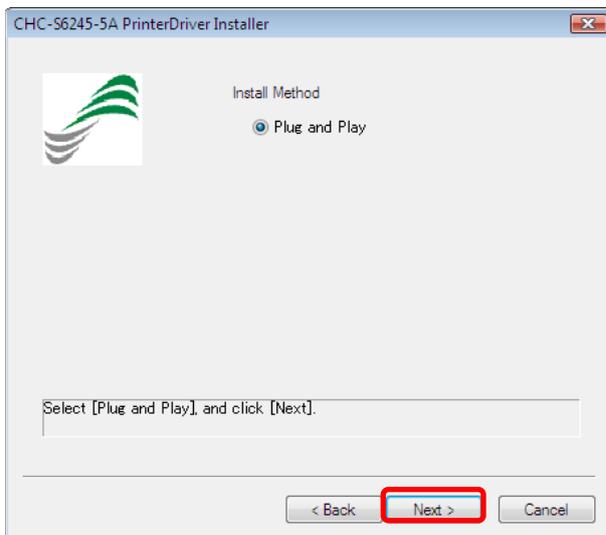


7. Close other all running applications.

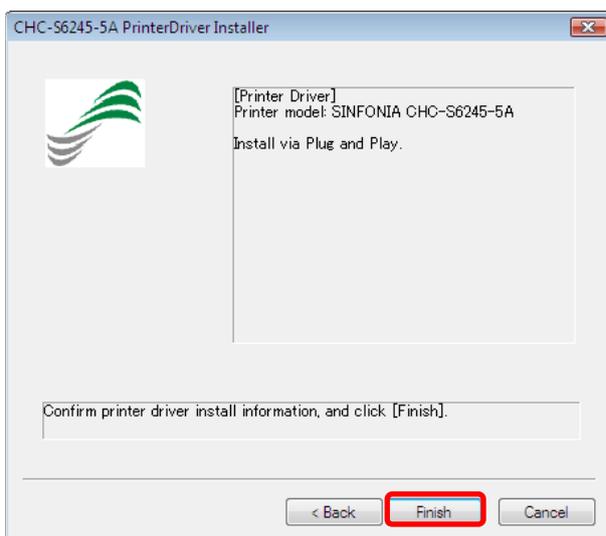
After finished all printing then click “Next”.



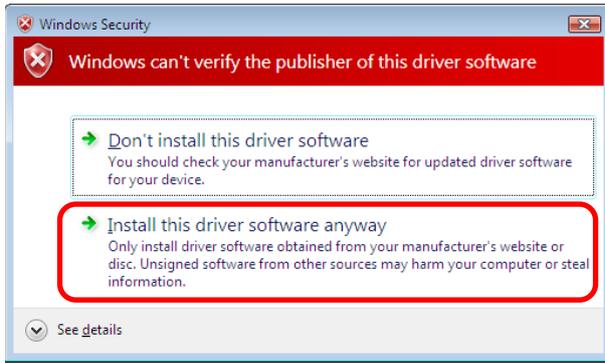
8. Select printer model, and click “Next”.



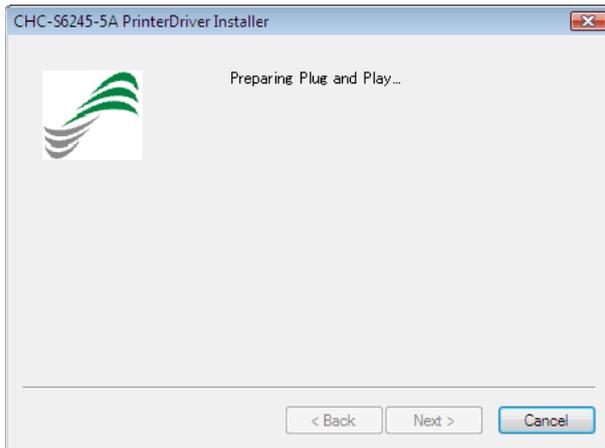
9. Select “Plug and Play”, and click “Next”.



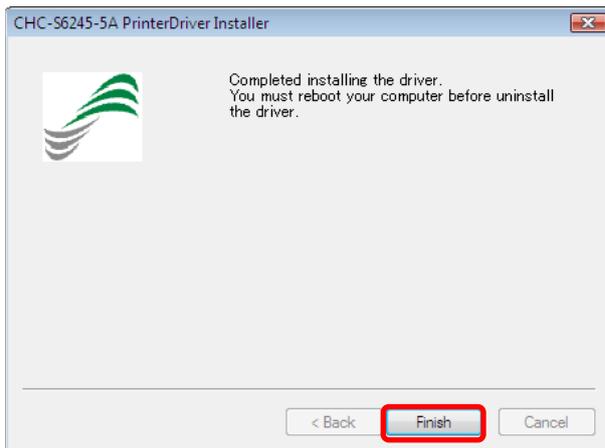
10. Click “Finish”.



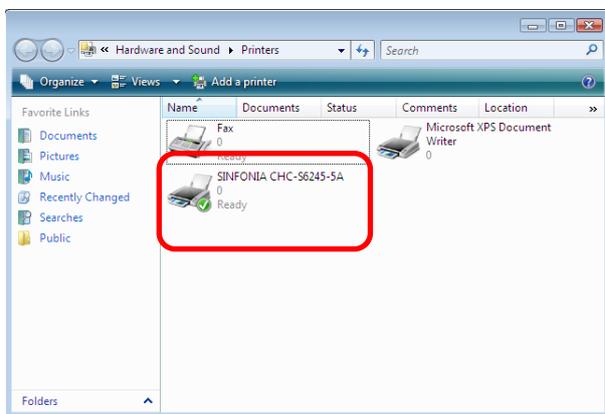
11. Click "Continue Anyway".



12. Installing the driver. Please wait a minute.



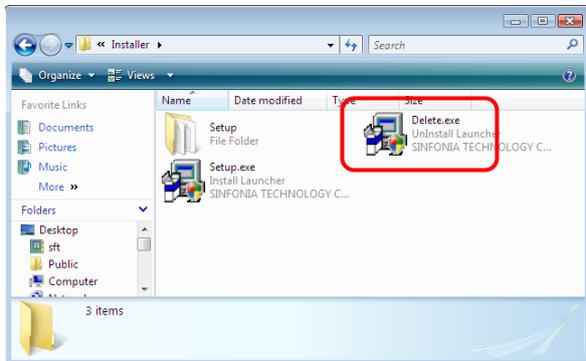
13. Click "Finish".



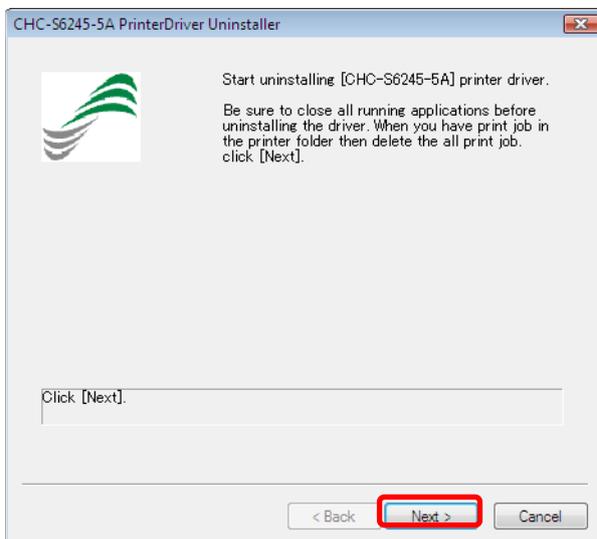
14. The "SINFONIA CHC-S6245-5A" printer icon appears in the "Printers" window.

Uninstalling the printer driver for Windows Vista

To uninstall the printer driver, follow the procedures below.



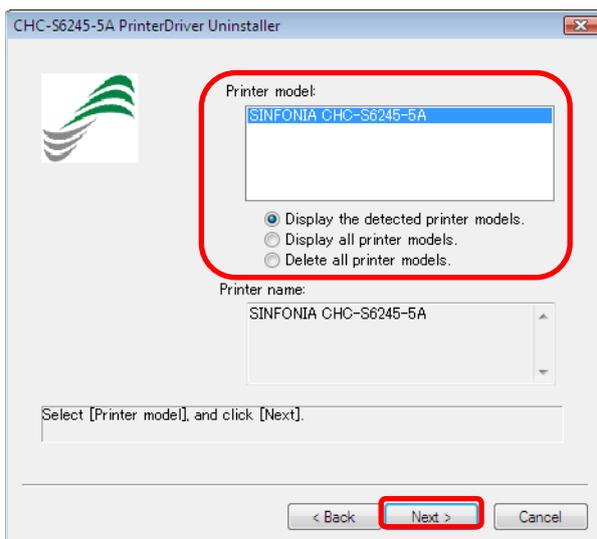
1. Open "Installer" folder, and then double-click "Delete.exe" icon.



2. Close all running applications.

When you have print job in the printer folder then delete the all print job.

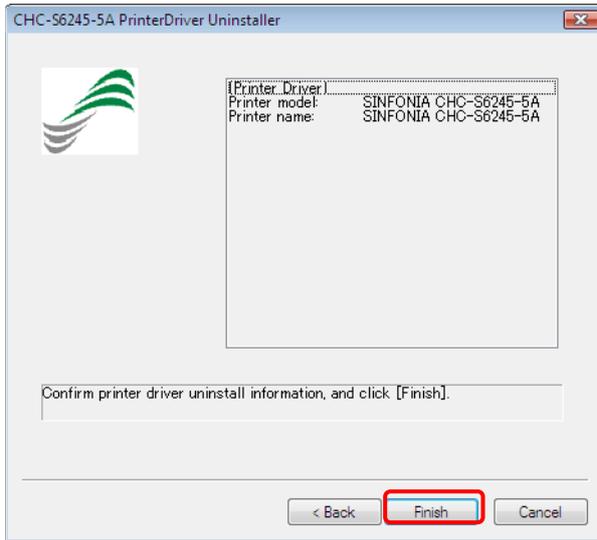
Click "Next".



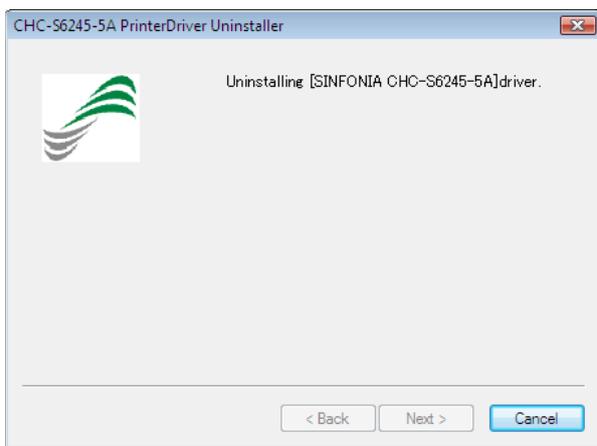
3. Select "Display the detected printer models" radio button, and select Printer model, and click "Next."

NOTES

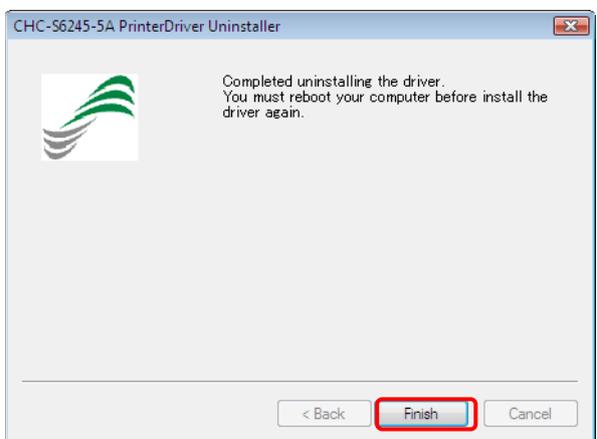
- "Display the detected printer models"
Display the installed printer driver in Windows.
- "Display all printer models"
Display the all printer models in the installer.
- "Delete all printer models"
Delete the all printer models in the installer.



4. Click "Finish".



5. Uninstalling the driver. Please wait a minute.



6. Click "Finish".

7. Reboot your computer.

Printing from application software

You can use the "Print" command of application software to print an image from your computer with CHC-S6245-5A digital photo printer.

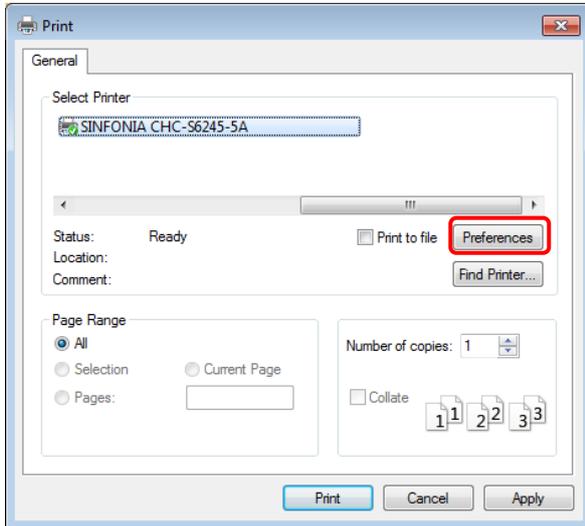
NOTES

- (1) Before printing, make sure that the printer is properly connected to your computer with a proper USB cable.
- (2) This section describes setting up the driver and printing from the Windows "Paint" program as typical application software.
- (3) The explanation in this section is based on Windows 7.
- (4) The maximum image size for each paper size is as follow.

| Paper size selected | Maximum image size in pixel units |
|---------------------|-----------------------------------|
| A4/210x297mm | 2544 x 3544 |

1. Start the application software, and open the image to print.

2. Click "Print" from the menu of the application.
The "Print" dialog box appears.

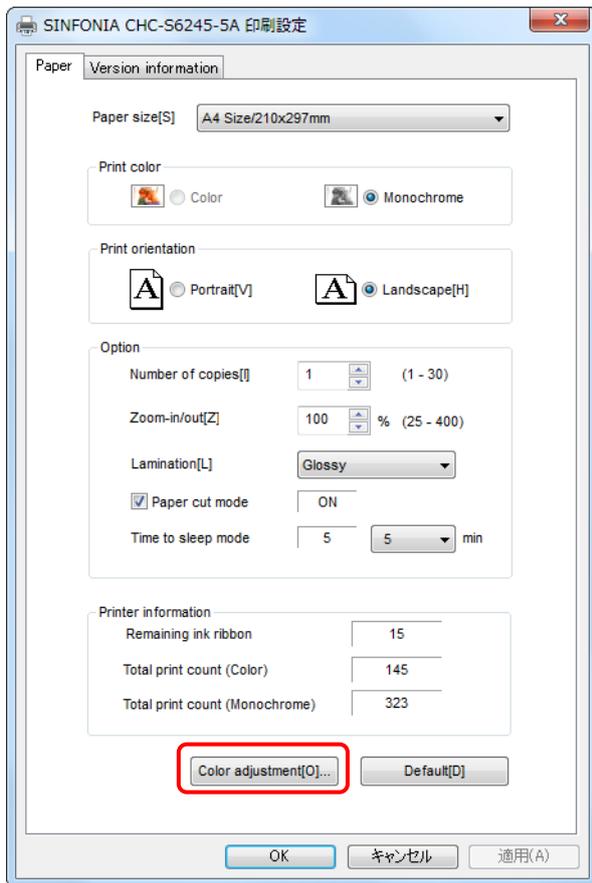


3. Printing Preferences.

Your application software may show a different appearance.

3-1. Select "SINFONIA CHC-S6245-5A"

3-2. Click "Preferences" to show the "SINFONIA CHC-S6245-5A Properties" dialog box.



3-3. Paper size

Choose a paper size you want to print.

3-4. Print color

This item shows which ribbon (color or monochrome) is set in the printer.

3-5. Print orientation

Select the Print orientation of an image either from "Portrait" or "Landscape".

3-6. Number of copies

Set the number of copies.

Effective Range: 1 ~ 30 (Default: 1)

3-7. Zoom-in / out

Set percentage at "Zoom-in / out". The origin for image scaling is on the center.

Effective Range: 25 ~ 400 (Default: 100)

3-8. Lamination

Choose a lamination of prints from "Glossy" of "Matte."

3-9. Paper cut mode

Set the "Paper cut mode" function to your CHC-S6245-5A printer.

Check on: "Paper cut mode: on".

Check off: "Paper cut mode: off".

3-10. Time to sleep mode

Set the "Time to sleep mode" function to your CHC-S6245-5A printer.

Possible setting value are as follows. 5, 15, 30, 60, 120, 240 min

If the printer is not supported the "Time to sleep mode", "Time to sleep mode" will be grayed out.

3-11. Remaining ink ribbon

This item shows approximate number of available prints with the loaded ink ribbon.

3-12. Total print count (Color)

This item shows total print counts of color print stored in the internal memory of the printer.

3-13. Total print count (Monochrome)

This item shows total print counts of monochrome print stored in the internal memory of the printer.

NOTES

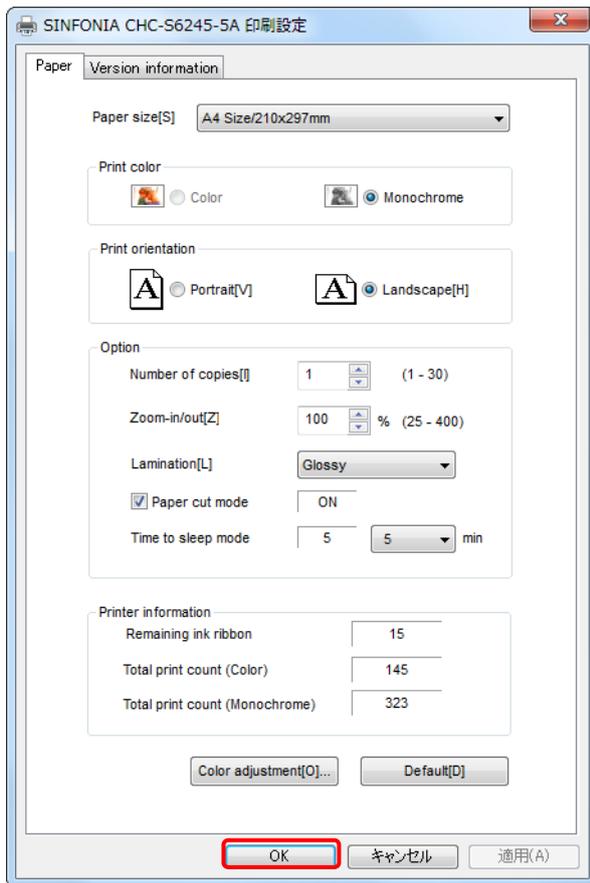
The actual number of prints may vary from the figure displayed depending on how the successive printing is performed.

3-14. Color adjustment

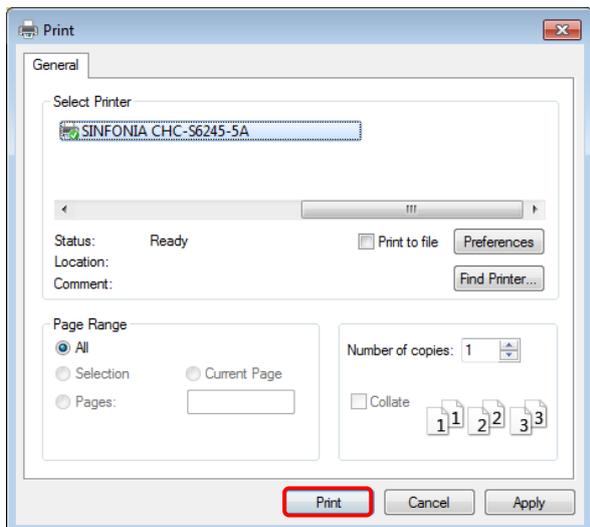
Clicking this button shows the "Color adjustment" window to adjust the prints.



See the section of "Color adjustment" in this document.



3-15. Click "OK" to return to the "Print" dialog box.



4. Click "Print" on the "Print" dialog box to start printing.

Click "Cancel" to cancel.

To cancel printing

- When the application software shows the Print dialog box, click "Cancel".
The print job will be canceled and the dialog box will be closed.
- When the print job has already entered into the print queue,
 1. Select "Settings" from the Windows Start menu, and then click "Printers and Faxes".
 2. Double-click on the "SINFONIA CHC-S6245-5A" icon.
The "SINFONIA CHC-S6245-5A" window is displayed. The documents in the print queue are listed in the window.
 3. Click the document you want to cancel.
 4. Click "Cancel" in the "Document" menu.
The document is removed from the list and the print job is canceled.
For the details, refer to the Windows documentation.

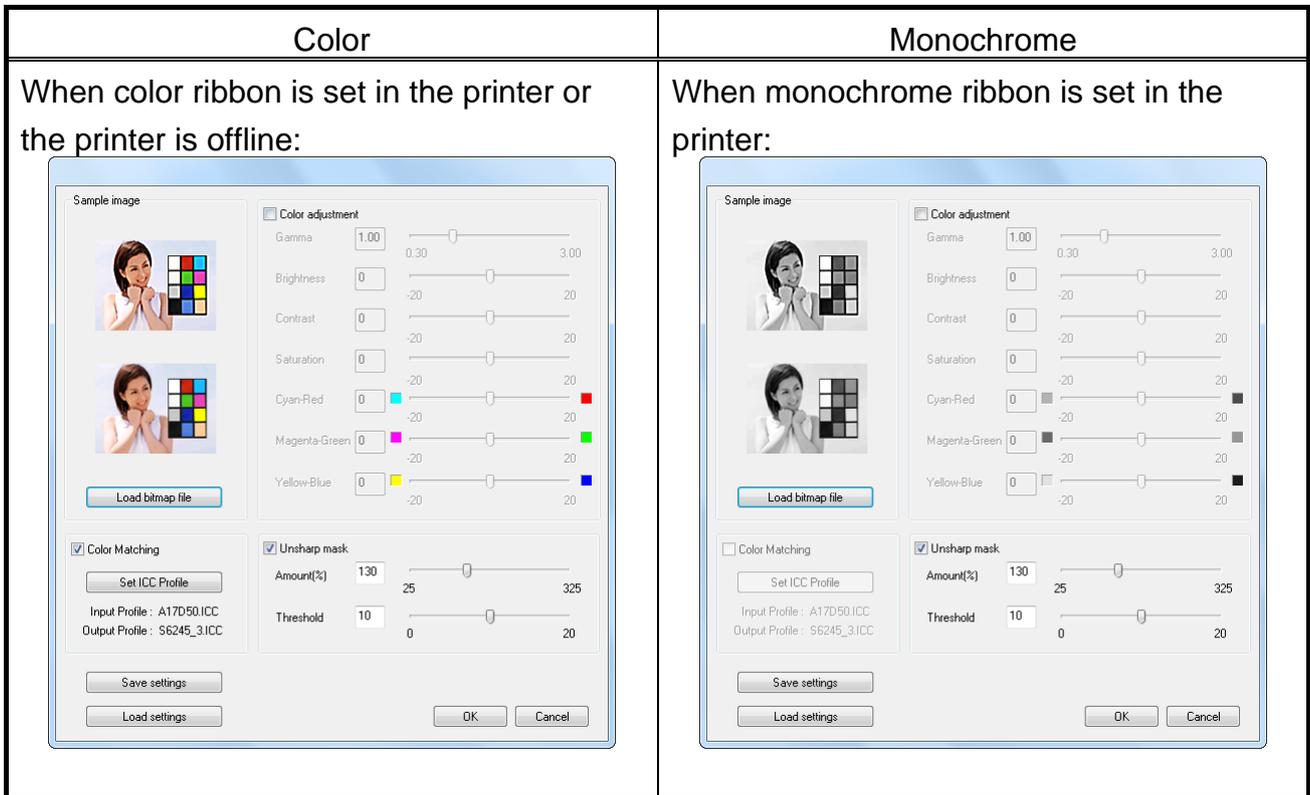
NOTES

If printing has already started, do not cancel printing.
Please wait until the printing is completed.

Color adjustment

Color adjustment window

You can select various kinds of printing options for color adjustment in the "Color adjustment" window.



Sample image

The upper image will preview the effects of color adjustments.
The lower image represents the original sample image.

NOTES

The preview image shows the approximate effects of color adjustment and may not represent the actual printing result.

Load bitmap file button

Clicking this button displays open dialog window to load a bitmap file to replace the default sample image.
Acceptable bitmap file: 24-bit full color, 480(H) x 680(W) pixels or less.

Color Matching checkbox

Checking this checkbox enables the color matching process for input images.

* When monochrome ribbon is set in the printer, this item is disabled.

Set ICC Profile button

Clicking this button displays the "Color Matching" window to allow you to define how the color matching applies to an input image.

* When monochrome ribbon is set in the printer, this item is disabled.

Input ICC Profile:

The input ICC profile name is displayed to be used for the color matching process.

* When monochrome ribbon is set in the printer, this item is disabled.

Output ICC Profile:

The output ICC profile name is displayed to be used for the color matching process.

* When monochrome ribbon is set in the printer, this item is disabled.

Save settings button

Clicking this button displays the open dialog window to save the settings of color adjustment to an external file.

Load settings button

Clicking this button displays the open dialog window to load the settings of color adjustment from an external file.

Color adjustment checkbox

Checking this checkbox enables every settings of "Color adjustment" option.

Gamma editbox / slider bar

This option adjusts the midtone of the print image. Drag the slider bar to the right to decrease the lightness of the midtone or to the left to increase it. You can also enter a value directly in the editbox.

Adjustable range: 0.30 ~ 3.00 (Default: 1.00)

Brightness editbox / slider bar

This option adjusts the brightness of the print image. Drag the slider bar to the right to increase the brightness or to the left to decrease it. You can also enter a value directly in the editbox.

Adjustable range: -20 ~ 20 (Default: 0)

Contrast editbox / slider bar

This option adjusts the contrast of the print image. Drag the slider bar to the right to increase the contrast or to the left to decrease it. You can also enter a value directly in the editbox.

Adjustable range: -20 ~ 20 (Default: 0)

Saturation editbox / slider bar

This option adjusts the saturation of the print image. Drag the slider bar to the right to increase the saturation or to the left to decrease it. You can also enter a value directly in the editbox.

Adjustable range: -20 ~ 20 (Default: 0)

* When monochrome ribbon is set in the printer, this item is disabled.

Cyan – Red editbox / slider bar

This option adjusts the color balance between Cyan and Red elements. The higher you set the value, the more the Red element increase while the Cyan element decrease – and vice versa.

Adjustable range: -20 ~ 20 (Default: 0)

* When monochrome ribbon is set in the printer, this item is disabled.

Magenta – Green editbox / slider bar

This option adjusts the color balance between Magenta and Green elements. The higher you set the value, the more the Green element increase while the Magenta element decrease – and vice versa.

Adjustable range: -20 ~ 20 (Default: 0)

* When monochrome ribbon is set in the printer, this item is disabled.

Yellow – Blue editbox / slider bar

This option adjusts the color balance between Yellow and Blue elements. The higher you set the value, the more the Blue element increase while the Yellow element decrease – and vice versa.

Adjustable range: -20 ~ 20 (Default: 0)

* When monochrome ribbon is set in the printer, this item is disabled.

Unsharp mask checkbox

Checking this checkbox enables every settings of "Unsharp mask" option.

Amount [%] editbox / slider bar

This option adjusts the magnitude of contrast at the edges of the print image. The higher you set the value, the sharper the print image becomes.

Adjustable range: 25 ~ 325 (Default: 130)

Threshold editbox / slider bar

This option sets threshold against the brightness change among the pixels contained in the image to determine if the unsharp mask is applied. The lower you set the value, the sharper the print image becomes.

Adjustable range: 0 ~ 20 (Default: 10)

OK button

Clicking this button fixes the settings in the "Color adjustment" window, and then close the window.

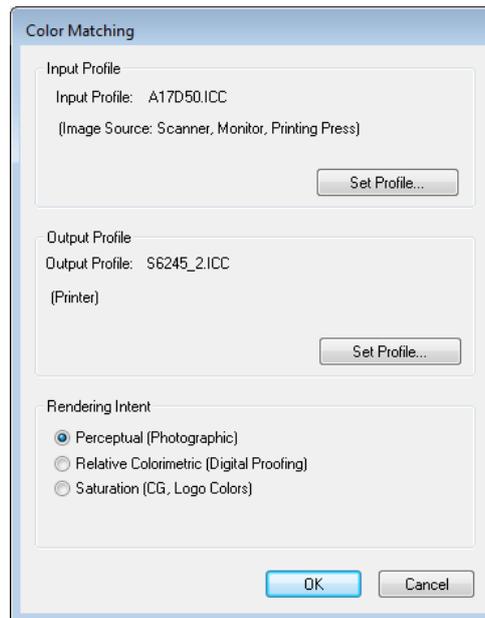
Cancel button

Clicking this button discards the settings in the "Color adjustment" window, and then close the window.

Color Matching window

You can choose ICC profiles and a Rendering Intent.

* When monochrome ribbon is set in the printer, this item is disabled.



Input Profile:

Current input ICC profile name in use is displayed.

Output Profile:

Current output ICC profile name in use is displayed.

Set Profile... button

Clicking this button allows you to load an input ICC profile or an output ICC profile respectively.

At the "Input Profile", load an ICC profile for the input device by which the current image was created.

At the "Output Profile", load an ICC profile for the printer.

Rendering Intent

You can choose Rendering Intent from the three options as shown in the table below.

| Rendering Intent | Features |
|--|--|
| Perceptual (Photographic) | Maps color smoothly, preserving relationships between similar colors, and generally provides the best reproduction of photographs. |
| Relative Colorimetric (Digital Proofing) | Represents any remaining out of gamut colors by the closest match and is generally a good choice for proof print. |
| Saturation (CG, Logo Colors) | Prints punchy business charts and graphs, preserving the saturation or brightness of colors. |

OK button

Clicking this button fixes the settings in the "Color Matching" window, and then close the window.

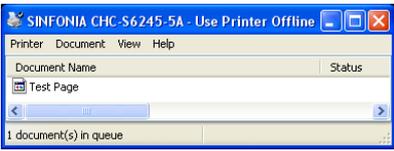
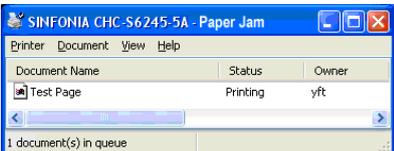
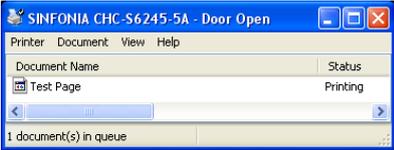
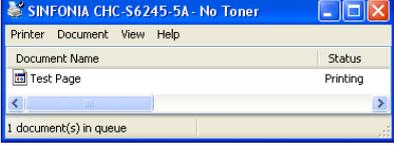
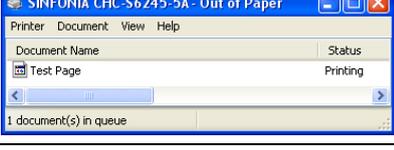
Cancel button

Clicking this button discards the settings in the "Color Matching" window, and then close the window.

Troubleshooting

When the printer driver displays a Printer Status on the Printer Folder, refer to the following table below for its cause and correction.

Printer Folder

| Printer Folder | Possible Causes | Possible Solutions |
|---|--|---|
|  | The printer is turned off. | Make sure the printer is turned on. |
| | There may be a problem with the connection of the printer. | Make sure that the printer is properly connected to your computer with a proper USB cable. |
| | A hardware malfunction may have occurred in the printer. | Consult our support center. |
|  | A paper jam has occurred. | Remove the jammed paper in accordance with the user manual of the printer. |
|  | The printer cover is open. | Close the printer cover. |
|  | The ink ribbon has run out or is not loaded. | Remove the used ink ribbon and load a new one. |
|  | The paper roll has run out or is not loaded. | Load a new one. |
|  | The size of ink ribbon loaded in the printer does not match the paper size specified in the current print job. | Load the correct size of ink ribbon to the printer or cancel the print job and print again with the correct paper size. |

Color adjustment window

| Error Messages | Possible Causes | Possible Solutions |
|--|--|---|
| Can not use this profile on current ribbon and image mode. | Incorrect ICC profile(s) are specified for the current settings. | Check if the ICC profile(s) are compatible with the current settings. |
| Can not find right ICC Profile. | The selected ICC profile is not found; or the ICC Profile has collapsed. | Check if the ICC Profile exists and is not broken. |
| Can not load bitmap file. | The selected bitmap file is not supported. | Load an acceptable bitmap file that is in 24-bit full color and up to 480 pixels in height and 680 pixels in width. |